Appendix Table 1. Studies and Study Arms Stratified by Intervention Type

	Meal or fruit and vegetable interventions	Snack foods and beverages	Multicomponent healthier meal	Water access
	(n=25)	interventions	and snack interventions	interventions
		(n=13)	(n=12)	(n=2)
Study design	Author, year	Author, year	Author, year	Author, year
Group RCT	Bere, 2005; Bere, 2006 (Free fruit arm); Bere, 2006 (Paid fruit arm); Damsgaard, 2014; Perry, 2004; Radcliffe, 2005; te Velde, 2008		Anderson, 2005; Coleman, 2012; Rappaport, 2005	Muckelbauer, 2012
Prospective cohort		Blum, 2008		
Other design with concurrent comparison		Alaimo, 2013; Taber, 2012c		
Group non- randomized trial	Tak, 2007; Jamelske, 2012			
Repeat cross- sectional with comparison	Moore, 2008	Schwartz, 2009	Spence, 2014	Schwartz, 2016
Time series	Qian, 2015			
Repeat cross- sectional	Amin, 2015; Cullen, 2015; Lin, 2016	Cradock, 2011; Palakshappa, 2016; Taber, 2012b	Fung, 2013; Cullen, 2008/ Mendoza, 2010; Mullally, 2010; Sanchez-Vaznaugh, 2010	
Cross-sectional with comparison	Affenito, 2013; Chang, 2014; Cohen, 2012; Davis, 2009; Olsho, 2015; Taber, 2013a; Taber, 2013b	Hennessy, 2014; Jones, 2009; Taber, 2012a; Taber 2015; Terry-McElrath, 2015; Wordell, 2012	Mâsse, 2014	
Single group before–after	Campos Pastor, 2012; Cohen 2014; Gates, 2013; Kastorini, 2016; Triador, 2015/Hanbazaza, 2015		Frerichs, 2015; Spence, 2013	

Appendix Table 2. Additional Dietary Outcomes by Intervention Category

Variable	Meal or fruit and	Snack food and beverage	Multicomponent healthier	Water access
	vegetable interventions	interventions	meal and snack interventions	interventions
Other sugar-s	sweetened beverage measure			
Number	NR	4	1	1
of study				
arms				
	_	Decrease: 0.25, <i>p</i> <0.05 (scale	1 serv SSB yesterday: OR ^b 1.08,	No intervention
		1 to 4)	NS	effect on soda consumption
		Adjusted prevalence of daily SSB		
		Banned soda: increase: 2.3		
		(95% CI= -1.4, 6.0)		
		Banned all SSB: increase: 5.8		
		(95% CI= 0.6, 11.1)		
		Consumed ≥1 SSB/d		
		compared to no consumption:		
		adjusted OR=3.3, <i>p</i> <0.01		
		Soda consumption: decrease		
		soda consumption among		
		African American population,		
		but not total population		
Low-nutrient				
Number	4	2	1	NR
of study				
arms				

	Sweets and crisps Sweets decrease: 0.14 portions/d (95% CI= -0.53, 0.26 portions/day) Crisps decrease: 0.04 portions/d (95% CI= -0.25, 0.18 portions/day) Soda/candy/chips Decrease: 0.40 and 0.58 times/wk Intake of energy-dense, micronutrient-poor food or drink at breakfast Decrease: 10.7 pct pts,	Sweet and salty snacks (1 to 4 scale) Sweet decrease: 0.10, NS Salty decrease: 0.20, NS Candy In school candy consumption: OR ^a 0.97 (SE=0.20); p=0.88 Out of school candy consumption: OR ^a 0.99 (SE=0.16), p=0.96 Pastries In school pastry consumption: OR ^a 0.44 (SE=0.12), p=0.00 Out of school pastry consumption: OR ^a 0.44 (SE=0.12), p=0.00	OR°: 2.1 (95% CI=1.6, 2.8)	_		
	p=0.002	(SE=0.25), p =0.06 Chips In school chip consumption: OR ^a 0.87 (SE=0.15), p =0.41 Out of school chip consumption: OR ^a 1.17 (SE=0.17), p =0.29				
Other fruit and	Other fruit and vegetable (FV) intake					
Number of study arms	3	1	1	NR		
	FV at morning snack	Fruit	Increase: 0.18 times/d, NS	_		

	Arm 1 Increase: 0.81 FV at snack, NR Arm 2 Increase: 0.56 FV at snack, NR Decrease: 0.06 cups at lunch; <i>p</i> =0.01 Increase: 0.18 cups at lunch	In school fruit consumption: OR ^a 1.01 (SE=0.12); p=0.95 Out of school fruit consumption: OR ^a 1.21 (SE=0.13); p=0.09 Vegetable In school vegetable consumption: OR ^a 1.08		
		(SE=0.14), p =0.56 Out of school vegetable consumption: OR ^a 0.94 (SE=0.10), p =0.58		
Intake of milk products	and alternatives to dairy			
Number of study arms	6	1	3	NR
	Decrease: 0.05 serv/d , $p=0.07$; Increase: 0.21 serv/d , $p<0.001$	In school milk consumption: OR 0.97^a (SE= 0.10), $p=0.77$ Out of school milk consumption: OR ^a 1.24	Increase: 4.1 oz of milk at lunch, p<0.05 Increase: 0.18 serv/d (95%	_
	Increase: 8.7 pct pts at breakfast, NS	(SE=0.13), p =0.04	CI=0.80, 0.28)	
	Increase: 3.7% milk at lunch (p =0.38)		Increase: 0.24 serv/d (95% CI=0.18, 0.31)	

	Decrease: 0.46 oz of milk at lunch, NS			
	Decrease: 10.1% milk at lunch (<i>p</i> <0.0001)			
	Increase 0.21 times eating milk/yogurt per day			
Fruit juice intake				
Number of study arms	3	4	NR	1
	Decrease: 0.01 servings at lunch, NS	In School juice consumption: OR ^a 0.73 (SE=0.10), p =0.02 Out of School juice	No studies	Decrease: 0.1 glasses/d, NS
	Increase: 0.31pct pts at breakfast, NS	consumption: OR ^a 0.82 (SE=0.82), <i>p</i> =0.10		
	Increase: 0.03 cups at lunch, NS	Girls decrease: 0.21 serv/d, p<0.05;		
		Boys increase: 0.05 serv/d, NS		
		100% Fruit Juice and Water (1 to 4 scale)		
		School increase: 0.33, NS Home decrease: 0.18, <i>p</i> <0.05		

		100% fruit juice: Increase: 0.4 serv/wk (NS)		
Diet quality				
indices				
Number	1	NR	2	NR
of study				
arms				
	KIDMED (range -4 to	_	Total Diet Quality Index	_
	11)		Increase: 0.03, NS	
	Increase: 0.05, NS			
			Students 80% more likely to	
			report better diet quality after	
			intervention: Increase: PR 1.8	
			(95% CI=1.3, 2.3)	

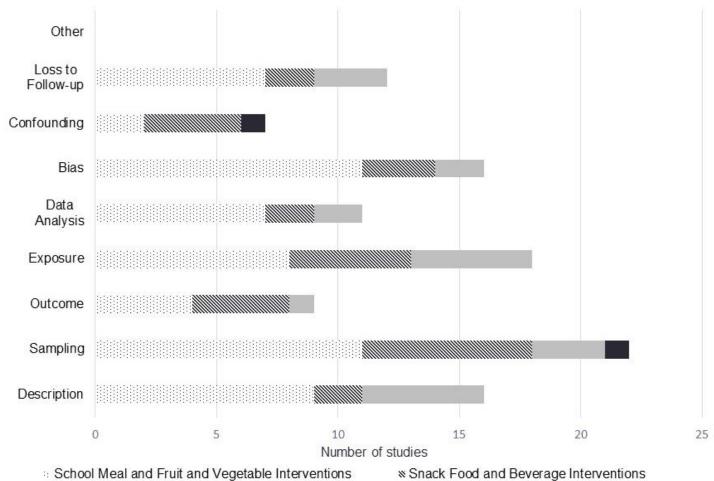
^aOdds of food item consumption for students exposed to policy compared to students not exposed to policy.

Kcals, kilocalories; d, day; wk, week; serv, servings; oz, ounces; NR, not reported; NS, not significant; IQI, interquartile interval; PR, prevalence ratio.

^bOdds of consuming 1 serving of sugar-sweetened beverages when exposed to average guidelines compared to below average guidelines or when exposed to above average guidelines compared to average guidelines.

^cOdds of meeting recommended intake of low-nutrient dense food after policy implementation compared to before policy implementation.

Appendix Figure 1. Study limitations by intervention.



- Multicomponent Healthier Meal and Snack Interventions Water Access Interventions